

The Cell Cycle

Session 1 CELL CYCLE CONTROL MECHANISMS

WEDNESDAY 5/17/2006, 7:30 PM

J. Ferrell

KEYNOTE SPEAKER: Mark Kirschner

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
1	Hahn	Monitoring cell cycle phase durations using live cell fluorescent biosensors	10
2	Pomerening	From embryo to adult—Progression through the somatic cell cycle requires a positive-feedback-driven CDK1 oscillator	10
3	Loog	Cyclin-specific changes in substrate recognition by Cdk1 and Swe1 during the cell cycle provide a system that efficiently separates the phosphorylation signals for S and M phase	10
4	Lolli	Structural determinants of CDK7 activity and substrate specificity	10
5	Björklund	Genome-wide analysis of cell cycle and cell size regulation in <i>Drosophila</i> cells	10

Session 2 G1 CONTROL I

THURSDAY 5/18/2006, 9:00 AM

S. Van den Heuvel / J.W. Harper

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
6	Kaldis	Cdc2/Cyclin E complexes can regulate the G1/S phase transition	10
7	Hengst	Tyrosine phosphorylation of p27 ^{Kip1} directly controls its Cdk-inhibitory activity and stability	10
8	Chu	p27 Phosphorylation by Src regulates inhibition of cyclin E-Cdk 2	10
9	Lin	Phosphorylation-dependent ubiquitination of cyclin D1 by the SCF ^{FBX4-αB} crystallin complex	10
10	Jin	Uba6, a novel vertebrate activating enzyme for ubiquitin	10
11	Benanti	A proteomic screen to identify targets of the SCF ubiquitin ligase	10
12	Zhao	The new members of the E2F family, E2F-7 and -8, regulate E2F-1 dependent apoptosis	10
13	Rubin	Molecular mechanisms for the association and dissociation of Rb pocket protein-E2F complexes	10
14	McClellan	A novel function for the Rb signaling pathway in regulating neuronal migration during development	10
15	van den Heuvel	Developmental control of cell division in <i>C. elegans</i>	10
16	Pei	p18 ^{Ink4c} and PTEN constrain a positive regulatory loop between cell growth and cell cycle control	10

Session 3 POSTER SESSION I

THURSDAY 5/18/2006, 2:00 PM

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
17	Adams	53BP1 oligomerization is independent of its methylation by PRMT1	

18	Astrinidis	Functional interaction between polo-like kinase 1 (PLK1) and hamartin, the tuberous sclerosis complex 1 (TSC1) gene product
19	Illert	Inactivation of NIPA results in premature mitotic entry and subsequent mitotic catastrophe
20	Becker	Investigation of a tensile element in spindles treated with nocodazole
21	Becker	TOGp regulates spindle microtubule dynamics and kinetochore motility
22	Bekker-Jensen	Spatial organization of the genome surveillance machinery in response to DNA strand breaks
23	Bentley	Elucidating the mechanisms of localization and function of cyclin B1/Cdk1 at mitotic kinetochores
24	Bernis	Pin1 mediates <i>Xenopus</i> Emi1 stabilization
25	Bicknell	Induction of the unfolded protein responses causes cell cycle delay in <i>S. cerevisiae</i>
26	Bloom	Cdc14-Clb5 antagonism and regulation of DNA replication
27	Bolon	Spacing of the bipartite ORC binding site affects origin activation in <i>S. cerevisiae</i>
28	Borysov	B-Raf regulates the MAPK signaling during mitosis in <i>Xenopus</i> egg extracts
29	Boyarchuk	Shugoshin has two functions during cell cycle in <i>Xenopus</i> egg extracts
30	Brem	MMS-induced S phase delay requires ATM
31	Campaner	Myc dependent tumorigenesis is affected by the loss of Cdk2
32	Kurtz	Mechanism of cell growth regulation by C/EBP α
33	Carvajal	The cyclin dependent kinase inhibitor p21 ^{CIP1} contributes to the DNA damage induced G2 checkpoint via down-regulation of Cdc25C
34	Chattopadhyay	Loss of human Mcm10 destabilizes polymerase α and results in genome instability
35	Cheerambathur	A spatially regulated change in microtubule dynamics at anaphase B onset in <i>Drosophila</i> mitotic spindles
36	Cheng	Epithelial cell transforming factor 2 (Ect2) is required for S phase progression in human glioma cells
37	Hoffmann	The human polo-like kinase-2 is required for cytokinesis
38	Cozar-Castellano	The cell cycle inhibitory protein, p21/Cip, is induced by growth factors in beta cells, but is not essential for maintaining beta cell cycle arrest in vivo
39	Grieco	Requirement for non-proteolytic M-phase promoting factor inactivation at M-phase exit
40	Diaz-Martinez	SUMO-E3 ligase PIAS γ is required for sister chromatid segregation in human cells
41	Draviam	Kinetochore-independent and -dependent regulation of anaphase onset
42	Dyczkowski	Comparative analysis of eukaryotic cell cycle genes
43	Eldridge	The Evi5 oncogene regulates cyclin accumulation by stabilizing the anaphase-promoting complex/cyclosome inhibitor Emi1
44	Stukenberg	Characterization of a novel vertebrate kinetochore protein with limited homology to yeast Dam1

45	Errico	The substrates of cyclin E/Cdk2
46	Fernandez-Miranda	Target validation in vivo of aurora B kinase in cancer
47	Fiaschi-Taesch	PTHrP induction of VSMC proliferation and neointima formation—A central role for 26S proteasome degradation of p27 ^{Kip1}
48	Finley	Coupling the nuclear cell cycle and nuclear migration with morphogenesis in <i>C. albicans</i>
49	Foster	The role of MRX at uncapped telomeres
50	Fraschini	Role of the budding yeast Bub2-Bfa1 complex in controlling mitotic exit
51	Labib	Roles of replisome progression complexes at eukaryotic DNA replication forks
52	GANIER	Functions of cyclin A in S phase of the mammalian cell cycle
53	Garcia-Muse	Phosphorylation at the synaptonemal complex
54	Garnett	Wild-type and mutant B-RAF activate C-RAF through distinct mechanisms involving heterodimerization
55	Burmeister	Sulindac induces G1 arrest and apoptosis in human urothelial carcinoma of the bladder
56	Gong	Cyclin A2 knockdown delays nuclear envelope breakdown and the nuclear accumulation of cyclin B1
57	Goodman	Cell life cycles—A systems model
58	Goodman	Cell life cycles—An uncertain future
59	Gorges	Novel function for the N-terminal domain of pRB revealed by reverse mutational analysis
60	Stemmann	Mutual inhibition of separase and Cdk1 by two-step complex formation
61	Goshima	Genome-wide RNAi screening of metaphase chromosome and spindle morphology
62	Guo	Aven protein regulates M phase entry through modulation of Cdc2 phosphorylation status
63	Cook	Cdc6 stability is regulated by the Huwe1 ubiquitin ligase after DNA damage
64	Polymenis	G1 cyclin-dependent control of membrane-bound organelle homeostasis
65	Hanisch	Two novel spindle and kinetochore associated proteins, Ska1 and Ska2, are essential for proper mitotic progression
66	Hansen	Rewiring the mitotic trigger for cyclin destruction to create a fertilization trigger for cytostatic factor release and meiosis II exit
67	Hara	Geminin is essential for development of preimplantation embryos
68	Harrison	Recovery from the DNA damage checkpoint
69	Havens	Regulation of G ₁ /S phase transition and APC ^{Cdh1} by reactive oxygen species
70	Hegemann	Mitochek—Phospho-site mapping of the cohesin and condensin complexes
71	Herzog	A cryo-electron microscopy model of vertebrate APC
72	Heubes	The AAA-ATPase Cdc48/p97 is not required for spindle disassembly at the end of mitosis

73	Hitomi	p27/Kip1 and Cdk2 regulate cellular proliferation by determining passage through the restriction point
74	Hochegger	Inhibition of CDK1 in mitosis but not in G2-phase is sufficient to allow pre-RC formation and endoreplication
75	Homma	Cell cycle-regulated phosphorylation and nuclear localization of CK2
76	Hong	mTOR activates SGK, impairs nuclear import of p27 and leads to cytoplasmic p27 accumulation
77	Hong	Degradation of CKAP2 during mitotic exit is mediated by the anaphase-promoting complex and required for normal progression of mitosis
78	Hood-DeGrenier	A synthetic lethal screen to uncover cytoplasmic targets of yeast CLB2/Cdc28
79	Hutchins	MitoCheck—A European collaborative genomic and proteomic project to understand mitosis
80	Hwang	Knockdown of human MCM10 causes slowed and incomplete chromosome replication followed by G2 phase arrest
81	Ikui	Differential specificity of S-phase and mitotic cyclins in inhibition of DNA re-replication
82	Dick	Regulation of pericentric heterochromatin by the retinoblastoma protein is necessary for chromosome separation in mitosis
83	Isaac	Chromatin regulation by pRB is required for G1-arrest
84	James	Modification of p27/Kip1 may affect its ability to act as an inhibitor of cyclin D-cdk4
85	Weiss	Regulation of the yeast RAM network, a conserved pathway that controls M/G1 transcription and polarized cell growth
86	Jelluma	Analyzing Mps1 kinase activity in the mitotic checkpoint
87	Kang	TopBP1 is required for the cell cycle progression in mammalian cells
88	Jiang	A novel centrosome-associated protein C53 is essential for multiple cell cycle events
89	Joukov	BRCA1/BARD1 supports the RAN pathway in its control of mitotic fidelity
90	Julian	An E2F1-'specific' binding site within pRB is necessary for regulation of E2F1-induced apoptosis
91	Kamijo	Positioning of the cleavage plane by Rho signaling
92	Karaca	Analysis of decatenation G2 checkpoint function by knockdown of TopoII α
93	Kassir	hCDK2 and yIME2 are functional homologs affecting entry into the meiotic pathway and the DNA damage checkpoint in <i>S. cerevisiae</i>
94	Kay	Phosphorylation of Ser10 and Thr187 sites facilitated by FGF-2 through PI 3-kinase induces degradation of p27 in corneal endothelial cells
95	Kelemen	Interactions between APC subunits, activators and substrates - searching for the D-box receptor
96	Kerns	Geminin-dependent and geminin-independent mechanisms inhibit Cdt1 and prevent re-replication
97	Kieffer	Characterization of the spatio-temporal regulation of the Cdc25B phosphatase

98	Kile	Dia2 is an unstable F-box protein that regulates DNA replication
99	Hwang	Cell cycle disturbance by human cytomegalovirus (HCMV) infection
100	Kim	The mechanism of Kip2 degradation during TGF β signaling
101	Kim	Interaction of Wee1A with Cdk1-cyclin B1 complex through its N-terminal domain
102	Kimata	Fission yeast Mes1 is an APC/C substrate and is directly recognized by WD40 activator proteins
103	Kudo	Aurora-A degradation by APC/C ^{Cdh1}
104	Klein	Centromere targeting of the chromosomal passenger complex requires a ternary sub-complex of Borealin, Survivin and the very N-terminus of INCENP
105	Malek	C-terminal phosphorylation controls the stability and function of p27kip1
106	Kulukian	Identifying the kinetochore-derived "wait anaphase" signal of the mitotic checkpoint
107	Larochelle	Selective inhibition of Cdk7 in human somatic cells through a combination of chemical genetics and homologous gene replacement
108	Legesse-Miller	Identification of master regulator of quiescence in human fibroblasts
109	Leisner	Is Kar9 a novel cyclin dependent kinase inhibitor?
110	Lens	Uncoupling the central spindle-associated function of the chromosomal passenger complex from its role at centromeres
111	Yamasaki	Site-specific suppression of neuroendocrine tumorigenesis in <i>Rb</i> ^{+/-} mice
112	Leung-Pineda	Phosphorylation of Chk1 by ATR is antagonized by a Chk1-regulated phosphatase circuit
113	Li	Cdh1 is essential for embryonic development and is involved in learning and memory
114	Li	Disruption of Cdc20 causes early lethality in mice
115	Liu	xERP1/Emi2 is a unique meiotic inhibitor of the anaphase promoting complex/cyclosome (APC/C) in vertebrate oocytes
116	Cortez	Regulation of genome stability by DDB1
117	Yu	Structural activation of Mad2 in the mitotic spindle checkpoint
118	MARGALL DUCOS	Physiological uncompleted cytokinesis—A lesson from liver
119	Marshall	Characterization of the poly-pharmaco-logical properties of Aurora kinase inhibitors using high content imaging
120	Mueller	Non-catalytic function for ATR in the checkpoint response

Session 4 G1 CONTROL II

THURSDAY 5/18/2006, 7:30 PM

B. Edgar / M. Tyers

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
121	Edgar	Controlling cell cycle exit at differentiation in the <i>Drosophila</i> wing and eye	10
122	Frolov	Specific role of the SR protein splicing factor B52 in cell cycle control in <i>Drosophila</i>	10

123	Moon	EGFR activity determines the developmental context in which RBF1 is required to prevent dE2F1-dependent apoptosis	10
124	Coller	A new description of cellular quiescence	10
125	Schaefer	A new model for the start of the yeast cell cycle	10
126	de Bruin	The MBF-associated corepressor NRM1 regulates G1-specific transcription via negative feedback during the cell cycle and mediates the response to cell cycle checkpoints	10
127	Tyers	Systematic analysis of pathways that couple growth and division	10
128	Polymenis	Control of start by mitochondrial energy generation pathways	10
129	Di Talia	Cell cycle control and variability in budding yeast cell cycle	10
130	Cohen-Fix	Shaping the yeast nucleus	10

Session 5 S PHASE

FRIDAY 5/19/2006, 9:00 AM

S. Bell / J. Walter

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
131	Bell	ORC and Cdc6 form a Mcm2-7 loading machine	10
132	Walter	Cell cycle regulation of eukaryotic DNA replication	10
133	Fu	Modulation of gene expression and replication timing by human replicator sequences	10
134	Hamlin	Preparation of virtually pure libraries of origins of replication from complex genomes	10
136	Futcher	Multiple roles of CDK phosphorylation sites in preventing re-replication	10
137	Rhind	Hsk1/Cdc7 regulates origin efficiency	10
138	Sheu	The Cdc7-Dbf4 kinase phosphorylates Mcm4 through a docking site-mediated mechanism and promotes pre-initiation complex assembly	10
139	Sclafani	Rad53 protein kinase function in the initiation of DNA replication independent of the checkpoint	10
140	Duronio	The role of Cul4-Ddb1 in the control of growth and CDT1/DUP levels during <i>Drosophila</i> development	10
141	Sprenger	F-Box dependent and independent functions of Rca1/Emi1	10

Session 6 POSTER SESSION II

FRIDAY 5/19/2006, 2:00 PM

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
142	Miller	GTPase flux maintains a tightly focused zone of Rho activity during cytokinesis	
143	Miller	Emi1 stably binds and inhibits the anaphase promoting complex/cyclosome as a pseudosubstrate inhibitor	
144	Mishima	Self-assembly of centralspindlin, a conserved complex of mitotic kinesin and RhoGAP, critical for cytokinesis	

145	Mitra	p57 ^{KIP2} controls the cyclin E/CDK2 responsive and G1/S phase related HiNF-P/p220 ^{NPAT} transcriptional co-activation complex
146	Mönkkönen	Non-Cdk-bound p27 is a marker for TFG-β induced growth arrest
147	Montembault	The PITSLRE/CDK11p58 protein kinase promotes centrosome maturation and bipolar spindle formation
148	Prigent	PITSLRE/CDK11p58 is required for centrosome maturation
149	Carpenter	Two mechanisms of tumor suppression by 53BP1
150	Morris	Mutations in <i>benedict</i> cause defects in the larval and adult endocycle and in nurse cell and oocyte chromosome morphology in <i>Drosophila</i>
151	Moudling	A novel activating mutation of WASp causes unregulated actin polymerization, X-linked neutropenia and cytokinesis defects
152	Mullany	AKT-mediated liver growth is associated with an uncoupling of cyclin E/cdk2 from the cell cycle
153	Muzumdar	A loss of heterozygosity mouse model reveals a cell autonomous role of <i>p27kip1</i> in the timing of cell cycle exit
154	Nachury	The CDC14A phosphatase coordinates microtubule and myosin dynamics during mitotic progression
155	Stoynov	Uncoupling of unwinding from DNA synthesis implies regulation of MCM helicase by Tof1/Mrc1/Csm3 checkpoint complex
156	Neumann	Genome-wide RNAi screening by live cell microscopy to identify human mitotic genes
157	Nezi	Accumulation of Mad2:Cdc20 complex during spindle checkpoint activation requires binding of open and closed conformers of Mad2
158	Kronja	Collective behavior of microtubule associated proteins at interphase to metaphase transition in <i>Xenopus</i> egg extract
159	Kitagawa	CIMA (caspase-independent mitotic apoptosis)—A novel type of cell death that occurs during mitosis in BUB1-deficient cells
160	Normand	Spontaneous furrow regression is not coupled to initiation of S-phase in HeLa cells
161	Schnittger	Functional analysis of the <i>Arabidopsis</i> Cdc2 homolog CDKA;1
162	Ohsugi	The chromokinesin Kid specifically safeguards early stage embryonic cleavages
163	Nakayama	Fbw7 is a key regulator of cell-cycle arrest and tumorigenesis during development
164	Pandey	Activation of the mitotic spindle checkpoint by hypoxia
165	Pascreau	The interplay between Aurora-A kinase and the tumor suppressor p53 during the cell cycle in <i>X. laevis</i>
166	Perera	Conditional inactivation of spindle checkpoint kinase Bub1
167	Pfaff	A screen for cell cycle mutants in zebrafish identifies SIL as a novel regulator of mitotic spindle organization
168	Poser	Mouse proteins reveal secrets of human cell cycle
169	Prasanth	Human ORC dynamics—Roles in heterochromatin organization and cell cycle progression

170	Privette	Altered expression of the early mitotic checkpoint gene, <i>CHFR</i> , in breast cancer cells—Implications for tumor suppression
171	Pugacheva	Dialog between the cell cycle and cell attachment signaling networks—The role of adhesion molecule HEF1 in activation of mitotic kinase Aurora A
172	Queralt	Separase dependent down-regulation of PP2A ^{Cdc55} initiates Net1 phosphorylation and mitotic exit
173	Raveendranathan	Genome-wide replication profiles of S phase checkpoint mutants reveal fragile sites in yeast
174	Ray	p27Kip1's dual role as an activator or inhibitor is dependent on signals provided by the arrested or cycling epithelial cell
175	Ren	Cyclin C is indispensable for quiescent primary murine embryonic fibroblast to enter G1 from G0
176	Buser	Biochemical characterization of ATP-competitive kinesin inhibitors ranging in selectivity for KSP and MCAK
177	Desdouets	Polaris, a novel centrosomal protein involved in cell cycle progression
178	Roy	Replisome integrity prevents Rad9-dependent checkpoint activation during S phase
179	Sakaguchi	PR-Set7-dependent methylation of histone H4K20 is essential for early mitotic progression and proper chromosome condensation in <i>Drosophila</i>
180	Sansam	Using zebrafish to identify novel DNA damage checkpoint genes
181	Santamaria	Genetic analysis of the role of cyclin-dependent kinases in vivo
182	Sasaki	A novel phenomenon "delayed division delay"—Evidence for delayed DNA double-strand breaks in the progeny of HeLa cells surviving α or X irradiation
183	Schneider	TACC3 depletion causes centrosomal abnormalities, polyploidy and rapid cell death in cells with compromised checkpoints
184	Schrift	Chfr tumor suppressor homologs are E3 ubiquitin ligases that interact with a new cell cycle protein in yeast
185	Segurado	Multiple DNA repair pathways contribute to cell lethality in checkpoint mutants
186	Shats	p16 ^{Ink4A} /pRb axes and myocardin cooperatively control myofibroblast differentiation of human fibroblasts—Implication for differentiation defect in transformation
187	Sigl	Establishing tools for knock-down and knock-out of essential genes in human somatic cells
188	Simon	Genome-wide analysis of the human cell cycle in primary cells
189	Simon	Replication timing mapping of a large genomic region of the mouse genome
190	Skotheim	Stochastic start—Modeling the G1/S transition in budding yeast
191	Son	Regulation of RNAP II CTD phosphorylation by Cdk1 kinase and Fcp1 phosphatase
192	Song	RASSF1A is required for Skp2-mediated G1-S transition and stabilization of p53
193	Song	Phosphorylation of RASSF1A by Aurora kinases regulates mitosis
194	Sotillo	Cyclin E cooperates with SV40 small T antigen in the acquisition of transformed features by normal human fibroblasts

195	Speck	Cdc6P ATPase regulates the interaction with ORC and sequence specific DNA binding of the ORC-Cdc6 complex
196	Stoyanova	Rapid termination of the p53-related checkpoint in UV-irradiated cells is required for efficient repair synthesis
197	Summers	In vitro analysis of mammalian mitotic protein destruction regulatory mechanisms
198	Fasullo	Characterization of the recombination phenotypes of <i>S. cerevisiae</i> hypomorphic <i>mec1</i> (ATR/ATM) mutants
199	Zou	In vitro cleavage of cohesin by separase depends on nuclear acid
200	Susaki	p27 can substitute for p57 in mouse development
201	Swaminathan	Dia2 functions together with Yra1 in regulating DNA replication
202	Sweeney	<i>Drosophila citron kinase (sticky)</i> controls peri-centric heterochromatin structure and mitotic progression to cytokinesis in proliferating and endoreduplicating cells
203	Vogel	Analysis of Glc7/PP1-type phosphatase function in budding yeast
204	Shats	The promoters of human cell cycle genes integrate signals from two tumor suppressive pathways during cellular transformation
205	Tarailo	Suppressors bypass the spindle checkpoint requirements without delaying progression through mitosis
206	Taylor	Probing the role of Aurora-kinase activity using chemical genetics
207	Tokai-Nishizumi	The chromokinesin Kid is required for maintenance of proper metaphase spindle size
208	Torres	Identification of mitotic microtubule associated proteins
209	Trickey	Timely destruction of <i>S. pombe</i> Rad54 by the anaphase promoting complex
210	Tully	APC regulation of the cytokinesis machinery
211	Tumurbaatar	The mammalian hCdc14B regulates mitosis and the RNA polymerase I transcription
212	Uetake	G1 cell cycle progression does not require the presence of an intact centrosome
213	Vader	Constitutive localization of the chromosomal passenger complex to centromeres prevents spindle assembly checkpoint silencing
214	Van Zon	The anaphase promoting complex contributes to substrate selection
215	Vanoni	The Cdk inhibitor Sic1 is modulated by the carbon source and it is a major molecular target mediating rapamycin-induced G1 arrest in <i>S. cerevisiae</i>
216	Velayuthan	Analysis of <i>Cdk2</i> ^{-/-} <i>p53</i> ^{-/-} double knockout mice
217	Venoux	The human microtubule-associated protein ASAP is phosphorylated by and interacts with Aurora-A
218	Verdun	Chromosome ends are recognized as DNA damage every G2 phase, and processed by the homologous recombination machinery
219	Vergnolle	Cenp-F targets Nudel to kinetochores in mitosis
220	Himanen	Characterization of the <i>Arabidopsis</i> cyclin-dependent kinase inhibitor, KRP2, interacting ring finger protein RFP1

221	Vidanes	Checkpoint clamp loading—Characterizing the recognition of a double-strand break in vivo
222	Vodermaier	Investigating the assembly pathway of kinetochores
223	Wandke	hKid and Kif4A are required for chromosome congression in mitosis
224	Wang	Transcriptional regulation at "Start" by the G1 cyclin Cln3
225	Wang	MAP kinase directly phosphorylates and activates Cdc25 during <i>Xenopus</i> oocyte maturation
226	Dai	Distinct domains for human Sgo1 dictate its subcellular localizations—Implication in mediating sister chromatid cohesion and microtubule dynamics
227	Wang	The function and regulation of budding yeast Swe1 in response to interrupted DNA synthesis
228	Watanabe	Inactivation of human Wee1A by M-phase phosphorylation
229	Wingate	The biochemical mechanisms of the LMW isoforms of cyclin E
230	Wohlbold	The Cdk family member PNQALRE/CCRK supports cell proliferation but has no intrinsic CAK activity
231	Wolf	Cyclin B1 destruction is required for chromosome segregation in mitosis
232	Wu	Constitutive dephosphorylation of Emi2 by an okadaic acid sensitive phosphatase maintains cytostatic arrest
233	Wu	Analysis of the interactions of human Cdt1 with geminin and MCM6
234	Yamada	Molecular mechanisms of Hsl7-mediated Wee1 degradation
235	Yamamoto	Activation of Aurora-B in <i>Xenopus</i> oocytes and embryos
236	Dai	Human Sgo1 is an excellent target for induction of apoptosis of cancer cells
237	Yarmishyn	Investigation of subversion of cell cycle control by MHV68 M-cyclin
238	Yata	DNA damage signaling to Cdk inhibition—Characterization of Cdc25A/14-3-3 complexes
239	Yu	Cisplatin cytotoxicity is dependent on Cdk2 activity
240	Liang	Rrp12 plays an essential and direct role in the initiation of DNA replication in budding yeast
241	Yung	A conserved E2F site in the Skp2 promoter completes a positive feedback loop that regulates the transition to mitogen-independent cell cycle progression
242	Zhu	Mitotic phosphorylation of Cdk inhibitor, p27 ^{Xic1} , modulates its association with PCNA and chromatin during the cell cycle
243	Zielke	<i>Drosophila</i> Rca1 acts as an F-box protein that maintains diploidy
244	Zierhut	Analysis of checkpoint activation and DNA turnover at DNA double-strand-breaks
245	Zou	The human homolog of the yeast Noc3 is required for DNA replication in human cells

Session 7 M PHASE I: MITOTIC CHROMOSOMES AND THE SPINDLE

FRIDAY 5/19/2006, 7:30 PM

D. Koshland / C. Walczak

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
246	Koshland	Lessons learned from the oxymoron, "yeast chromosome structure"	10
247	Kueng	Characterization of a protein that controls association of cohesin with chromatin	10
248	Eckert	Kinetochores-microtubule attachments alter pericentric cohesion binding in budding yeast	10
249	Hartl	The <i>Drosophila</i> condensin subunit CapH2 ensures faithful separation of male meiotic chromosomes	10
250	Osmani	Mitotic regulation of the nuclear pore complex during <i>Aspergillus</i> mitosis	10
251	Zhang	Regulation of MCAK function by Aurora B and Plx-1	10
252	Biggins	The Ipl1/Aurora protein kinase regulates bipolar spindle assembly	10
253	Kelly	Spindle assembly is induced by chromatin-dependent activation of the aurora B pathway	10
254	Fang	The microtubule-associated protein HURP promotes efficient capture of kinetochores by controlling spindle dynamics	10
255	Oshimori	Kizuna, a new Plk1 target, stabilizes mitotic centrosomes to ensure spindle bipolarity	10

Session 8 M PHASE II: APC AND THE SPINDLE CHECKPOINT

SATURDAY 5/20/2006, 9:00 AM

S. Biggins / A. Musacchio

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
256	Yamano	Roles of the APC/C and Cdc20/Fizzy to recognize different substrates	10
257	Swan	Local destruction of mitotic cyclins in <i>Drosophila</i> embryos by a diverged CDC20 homolog, Cortex	10
258	Jackson	The END (Emi1, NuMA, dynein/dynactin) network, anchors and regulates the anaphase promoting complex/cyclosome on the mitotic spindle poles to stabilize cyclin B, maintain prometaphase, and enable the spindle checkpoint	10
259	Musacchio	The "Mad2 template" model of spindle checkpoint activation	10
260	Qi	Phosphorylation- and polo-box-dependent binding of Plk1 to Bub1 is required for the kinetochore localization of Plk1	10
261	Solomon	Functional analysis of Mad3 in the spindle assembly checkpoint in budding yeast	10
262	Stegmeier	Functional genomic screen for regulators of the spindle checkpoint in human cells	10
263	Baumann	PICH is a novel substrate of PLK1 and required for the spindle checkpoint	10
264	King	A small molecule inhibitor of cyclin proteolysis overrides the spindle checkpoint in mammalian cells	10
265	Zachariae	Budding yeast casein kinase 1 is required for monopolar attachment of sister kinetochores in meiosis I	10

Session 9 M PHASE III: ANAPHASE AND CYTOKINESIS

SATURDAY 5/20/2006, 2:00 PM

F. Uhlmann / M. Glotzer

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
266	Uhlmann	Mitotic exit regulation by separase	10
267	Jallepalli	Separase promotes multiple aspects of the G2/M program in human cells	10
268	Huang	Loss of inhibitory phosphorylation of separase causes gametogenesis failure and infertility in mice	10
269	Woodbury	The spindle-stablizing activity of Fin1 is regulated during mitosis by Cdks and the APC	10
270	Jiang	Spatio-temporal control of spindle midzone formation by PRC1 in human cells	10
271	Werner	Regulation of cytokinesis by the mitotic spindle in the <i>C. elegans</i> embryo	10
272	Mendoza	The NoCut pathway links abscission to proper function of the spindle midzone and prevents chromosome breakage by the cytokinetic machinery	10
273	Sumara	Cul3/BTB-KLH9/BTB-KLH13, a novel E3 ligase, is required for completion of cytokinesis in human cells	10
274	Yoshida	Polo-like kinase Cdc5 controls the local activation of Rho1 to promote assembly of the cytokinetic actin ring	10
275	Labib	A novel cytokinesis factor identified by functional proteomics	10

Session 10 DNA DAMAGE RESPONSE

SUNDAY 5/21/2006, 9:00 AM

K. Cimprich / S.J. Elledge

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
276	Cimprich	Regulation of DNA damage responses by a common DNA intermediate	10
277	Kumagai	TopBP1 activates the ATR-ATRIP complex	10
278	Conti	Replication-induced breaks, increased origin firing and cryptogenic γ -H2AX-ATM-CBK1 checkpoint activation in BLM deficient cells	10
279	Aragon	Segregation of incompletely replicated DNA caused by fork progression defects in <i>smc5-smc6</i> mutants	10
280	Peschiaroli	β -Trcp and Plk1 regulate recovery from the DNA replication checkpoint response by triggering the degradation of Claspin	10
281	Mailand	Degradation of human Claspin by the SCF ^{β-TRCP} ubiquitin ligase in mitosis and upon recovery from genotoxic stress-induced cell cycle arrest	10
282	Peng	The DNA damage checkpoint in embryonic cell cycles is dependent on the DNA-to-cytoplasmic ratio	10
283	Reinhardt	MAPKAP kinase-2 is an essential regulator of cell cycle progression after chemotherapy induced DNA damage	10
284	Perry	DNA-responsive checkpoint control of the PP2A/B56 complex mediates Cdc25 activation and entry into mitosis	10