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Yeast Chromosome Biology & Cell Cycle

July 15-July 20, 2018

Steamboat Grand, Steamboat Springs, Colorado

Organizers:

Jennifer Gerton, Investigator

Stowers Institute for Medical Research

Kansas City, Missouri

M. K. Raghuraman (Raghu), Research Professor

University of Washington

Seattle, Washington

Sunday, July 15, 2018

Time	Title
4:00 p.m. – 9:00 p.m.	Conference Registration
6:00 p.m. – 7:00 p.m.	Welcome Reception, open bar
7:00 p.m. – 8:30 p.m.	DINNER
8:45 p.m. – 10:00 p.m.	Keynote Address David Morgan , University of California San Francisco Mechanisms underlying the initiation of chromosome segregation

Monday, July 16, 2018

Time	Title
7:30 a.m. – 9:00 a.m.	BREAKFAST
7:30 a.m. – 12:00 p.m.	Conference Registration
9:00 a.m. – 12:15 p.m.	GENERAL SESSION 1: Chromosome Structure Chair: Frank Uhlmann , The Francis Crick Institute
9:10 a.m. – 9:35 a.m.	Doug Koshland , University of California Berkeley <i>Cohesin, a complex mechanism for DNA binding</i>
9:35 a.m. – 10:00 a.m.	Christian Haering , European Molecular Biology Laboratory <i>Condensin complexes structure chromosomes by active loop extrusion</i>

10:00 a.m. – 10:20 a.m.	Damien D'Amours , University of Ottawa <i>Condensin ATPase motifs contribute differentially to the maintenance of chromosome morphology and genome stability</i>
10:20 a.m. – 10:50 a.m.	MORNING COFFEE BREAK & GROUP PHOTO
10:50 a.m. – 11:15 a.m.	Kerry Bloom , University of North Carolina at Chapel Hill <i>Fork pausing allows centromere DNA loop formation and kinetochore assembly</i>
11:15 a.m. – 11:40 p.m.	Xiaolan Zhao , Memorial Sloan Kettering Cancer Center <i>SUMO and Smc5/6 regulation of genome duplication</i>
11:40 a.m. – 12:00 p.m.	Madhusudhan Srinivasan , University of Oxford <i>A post loading function of the cohesin loader Scc2</i>
12:00 p.m. -12:15 p.m.	3 Flash talks-Keller, Pohl, and Wang
12:15 p.m. – 1:15 p.m.	LUNCH
4:00 p.m. – 7:15 p.m.	GENERAL SESSION 2: DNA Replication Session Chair: Steve Bell , MIT, HHMI
4:00 p.m. – 4:25 p.m.	Rebecca Martin , University of Washington <i>Modifying replication origin specificity of budding yeast ORC</i>
4:25 p.m. – 4:50 p.m.	Karim Labib , University of Dundee <i>The end of chromosome replication</i>
4:50 p.m. – 5:15 p.m.	John Diffley , The Francis Crick Institute <i>Reconstituting Chromosome Replication</i>
5:15 p.m. – 5:30 p.m.	BREAK
5:30 p.m. – 5:55 p.m.	Dirk Remus , Memorial Sloan Kettering Cancer Center <i>DNA structures challenging fork progression by reconstituted budding yeast replisomes</i>
5:55 p.m. – 6:15 p.m.	Antonio Bedalov , Fred Hutchinson Cancer Research Center <i>Suppression of transcription-mediated displacement of pre-replicative helicases enforces late replication of heterochromatin</i>
6:15 p.m. –6:40 p.m.	Tony Carr , University of Sussex <i>Mechanisms of replication-associated genome rearrangement</i>
6:40 p.m.-6:55 p.m.	3 Flash talks-Hoggard, Devakumar, Roy
7:00 p.m. – 8:00 p.m.	DINNER
8:00 p.m. – 10:00 p.m.	Poster Session 1: Odd Numbers

Tuesday, July 17, 2018

<u>Time</u>	<u>Title</u>
7:30 a.m. – 9:00 a.m.	BREAKFAST
9:00 a.m. – 12:15 p.m.	GENERAL SESSION 3: Genome stability in mitosis and meiosis Session Chair: Michael Lichten , NIH
9:00 a.m. – 9:25 a.m.	Sarah Zanders , Stowers Institute for Medical Research <i>wtf suppresses genetic parasites</i>
9:25 a.m. – 9:50 a.m.	Rodney Rothstein , Columbia University <i>Poetry in motion: Increased chromosomal mobility after DNA damage</i>
9:50 a.m. – 10:10 a.m.	Dean Dawson , Oklahoma Medical Research Foundation <i>Centromere pairing promotes meiosis I segregation in budding yeast</i>
10:10 a.m. – 10:30 a.m.	MORNING COFFEE BREAK

10:30 a.m. – 10:55 a.m.	Jim Haber , Brandeis University <i>DNA damage checkpoint responses to a broken chromosome</i>
10:55 a.m. – 11:20 a.m.	Ted Weinert , University of Arizona Cancer Center <i>A long study and fanciful model of genome instability: Are we there yet, and is it interesting?</i>
11:20 a.m. – 11:45 a.m.	Soni Lacefield , Indiana University <i>Autophagy is Essential for Meiotic Exit</i>
11:45 a.m. – 12:00p.m.	3 Flash talks-Bravo Núñez, Lanz, Yu
12:00 p.m. – 2:00 p.m.	LUNCH and Meet the experts
2:00 p.m. – 4:00 p.m.	FREE TIME
4:00 p.m. – 6:45 p.m.	GENERAL SESSION 4: Telomeres Session Chair: M. K. Raghuraman , University of Washington
4:00 p.m. – 4:25 p.m.	Rishi Kumar Nageshan , National Institutes of Health <i>Spindle dynamics dictate whether chromatin entanglements are resolved or further entangled</i>
4:25 p.m. – 4:45 p.m.	Héloïse Coutelier , Sorbonne Université <i>Adaptation events are a major contributor to the specific genome instability of telomerase-deficient cells</i>
4:45 p.m. – 5:10 p.m.	Katherine Friedman , Vanderbilt University <i>Capping of persistent double-strand breaks by de novo telomere addition is stimulated by the recruitment of telomerase to specific chromosomal sites</i>
5:10 p.m. -- 5:30 p.m.	BREAK
5:30 p.m. – 5:55 p.m.	Raymund Wellinger , Université de Sherbrooke <i>Recruitment of telomerase to telomeres requires a tight RNP organization</i>
5:55 p.m. – 6:20 p.m.	Virginia Zakian , Princeton University <i>Regulating telomerase: mechanisms that limit its abundance</i>
6:30 p.m. – 7:30 p.m.	DINNER
7:30 p.m. – 9:30 p.m.	POSTER SESSION 2 – Even Numbers

Wednesday, July 18, 2016

<u>Time</u>	<u>Title</u>
7:30 a.m. – 9:00 a.m.	BREAKFAST
9:00 a.m. – 10:00 a.m.	Career Session: Benjamin Corb , Director of Public Affairs, ASBMB <i>Science Policy and Advocacy</i>
10:00 a.m. – 10:20 a.m.	MORNING COFFEE BREAK
10:20 a.m. – 12:00 p.m.	GENERAL SESSION 5: Kinetochores and Spindles Session Chair: Jennifer Gerton , Stowers Institute for Medical Research
10:20 a.m. – 10:45 a.m.	Tomo Tanaka , University of Dundee <i>Mechanisms of kinetochore–microtubule error correction</i>
10:45 a.m. – 11:10 a.m.	Stefan Westermann , University of Duisburg-Essen <i>Kinetochores and the microtubule cytoskeleton: Biochemical and genetic analysis of chromosome segregation in budding yeast</i>
11:10 a.m. - 11:30 a.m.	Lu Gan , National University of Singapore <i>Kinetochore conformational changes visualized in vivo by cryo-ET</i>

11:30 a.m. - 11:50 a.m.	Munira Basrai , National Institutes of Health <i>Evolutionarily conserved pathways prevent mislocalization of CENP-A for chromosome stability in yeast and human cells</i>
11:50 a.m. – 12:15 p.m.	Sue Jaspersen , Stowers Institute for Medical Research <i>Yeast centrosome duplication, structure and membrane insertion</i>
12:15 p.m. – 1:15 p.m.	LUNCH
1:15 p.m. – 6:00 p.m.	FREE TIME – Optional Group Activity-Strawberry Park Hotsprings
6:00 p.m. – 7:00 p.m.	DINNER
7:00 p.m. – 10:00 p.m.	GENERAL SESSION 6: Mitosis Chair: Kathy Gould , Vanderbilt University
7:00 p.m. – 7:25 p.m.	Douglas Kellogg , University of California - Santa Cruz <i>Control of cell growth and size during the cell cycle</i>
7:25 p.m. – 7:50 p.m.	Jan Skotheim , Stanford University <i>The biosynthetic basis of cell size control</i>
7:50 p.m. – 8:15 p.m.	Nick Rhind , University of Massachusetts Medical School <i>Cdc13 and Cdc25 are Sizars that Regulate Fission Yeast Cell Size</i>
8:15 p.m. – 8:30 p.m.	BREAK
8:30 p.m. – 8:50 p.m.	Judith Berman , Tel Aviv University <i>Mediating phenotypic variability and adaptation to drug stress in Candida albicans</i>
8:50 p.m. – 9:15 p.m.	I-Ju Lee , Harvard Medical School, HHMI <i>Identifying Chmp7-independent mechanisms for nuclear envelope sealing</i>
9:15 p.m. – 9:40 p.m.	Eduardo Torres , University of Massachusetts Medical School <i>Aneuploid cells rely on sphingolipid synthesis to maintain nuclear morphology</i>

Thursday, July 19, 2018

<u>Time</u>	<u>Title</u>
7:30 a.m. – 9:00 a.m.	BREAKFAST
9:00 a.m. – 11:30 p.m.	GENERAL SESSION 7: Chromatin and Genome Organization Chair: Anne Donaldson , Aberdeen University
9:00 a.m. – 9:30 a.m.	Toshio Tsukiyama , Fred Hutchinson Cancer Research Center <i>Mechanisms of chromatin compaction in quiescent yeast cells</i>
9:30 a.m. – 9:55 a.m.	Lorraine Pillus , University of California-San Diego <i>Chromatin Modifications Influencing the Cell Cycle and Dynamic Cell Aging</i>
9:55 a.m. – 10:15 a.m.	Catherine Fox , UW-Madison School of Medicine and Public Health <i>Yeast heterochromatin regulator Sir2 acts directly at euchromatic DNA replication origins and controls the distribution of MCM complexes across chromosomes</i>
10:15 a.m. – 10:30 a.m.	MORNING COFFEE BREAK
10:30 a.m. – 10:55 a.m.	Songtao Jia , Columbia University <i>Regulation of transcription within heterochromatin</i>
10:55 a.m. – 11:15 a.m.	Devika Salim , Stowers Institute for Medical Research <i>Transcription and replication stress facilitate adaptation through inducible copy number variation at tandem repeats</i>
11:15 a.m. – 11:35 a.m.	Matthew Crane , University of Washington <i>Genomic instability drives catastrophic mitotic failures in aging yeast</i>
11:35 p.m. – 12:15 p.m.	Business Meeting
12:15 p.m. – 1:15 p.m.	LUNCH

1:15 p.m. – 4:00 p.m.	BREAK
4:00 p.m. – 7:00 p.m.	GENERAL SESSION 8: Cell Cycle Control Chair: Brenda Andrews , University of Toronto
4:00 p.m. – 4:25 p.m.	Silke Hauf , Virginia Tech <i>Exploring the dynamic regulation underlying synchronous sister chromatid separation at anaphase onset</i>
4:25 p.m. – 4:50 p.m.	Eric Weiss , Northwestern University <i>TBD</i>
4:50 p.m. – 5:10 p.m.	Jennifer Benanti , University of Massachusetts Medical School <i>Rewiring of cell cycle-regulated gene expression by calcineurin</i>
5:10 p.m. – 5:30 p.m.	BREAK
5:30 p.m. – 5:50 p.m.	Xiaoxue Zhou , Massachusetts Institute of Technology <i>The Mitotic Exit Network signals across cellular compartments</i>
5:50 p.m. – 6:15 p.m.	Adam Rudner , University of Ottawa <i>Redundant phosphatases regulate stepwise Cdk1 tyrosine dephosphorylation and anaphase onset</i>
6:15 p.m. – 6:40 p.m.	Dave Toczyski , University of California San Francisco <i>Roles for K11 ubiquitin chains in yeast</i>
6:45 p.m. – 8:00 p.m.	DINNER
8:00 p.m. – 10:00 p.m.	POSTER SESSION 3 – Catch-up poster session and make your own ice cream sundae bar

Friday, July 20, 2018

<u>Time</u>	<u>Title</u>
7:30 a.m. – 9:00 a.m.	BREAKFAST
9:00 a.m.	Boxed Snacks to Go and DEPARTURES

END OF CONFERENCE

For additional information contact:
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