

**Northeast Regional Chromosome Pairing Conference  
2012 First Annual Meeting  
October 26-27**

**Geisel School of Medicine at Dartmouth  
Hanover, New Hampshire**

**Co-Organizers**

Ting Wu, Harvard Medical School  
Giovanni Bosco, Geisel School of Medicine at Dartmouth  
Jack Bateman, Bowdoin College  
Thomas Merritt, Laurentian University  
James Morris, Brandeis University

**Sponsorship By**

VWR  
Olympus  
Genesee Scientific  
Laurentian University  
Geisel School of Medicine at Dartmouth

**Schedule of Events**

**Friday, October 26: Vail 614**

4pm	Gio Bosco (5 min)	Opening remarks
	Dave Mellert (20 min)	Transvection is common throughout the Drosophila genome
	Amanda Blick (10 min)	Developing a sensitive assay for transvection
	Jacob Blum (10 min)	Heteroallelic transvection in Drosophila
	Michelle Longworth (20 min)	Condesin II Restricts Natural Transposon Mobilization in Somatic Cells
5:05	<b>Break (Sponsored by VWR)</b>	
5:30	Judy Kassis (20 min)	Cohesin and pairing-sensitive silencing

Fred Bantignies    Not pairing, but looping, or maybe both!  
(20 min)

Jason Stumpf        The molecular control of mitotic  
(20 min)            chromosome movements

**Dinner Catered by the Hanover Inn: Vail 513 6:30 to 8**

**Friday night: (after dinner) 8-9**

8 pm            Sonny Nguyen        Su(z) who? Revelations from the Genetic  
(20 min)            Analysis of a forgotten PcG

Matt Jakubik        Small chromosomal structural variants are  
(20 min)            detected by the meiotic machinery in *C.*  
*elegans*

Judy Kassis         Other Experiments on Wapl  
(10min)

Jack Bateman        Not not pairing or pairing, but maybe both!  
(10 min)

**Saturday, October 27:**

8am **Lite Breakfast/coffee (Sponsored by VWR)** – Free unscheduled chatter

9am Chamith Fonseka (20 min) Ultraconserved elements (UCEs) and copy number variants (CNVs): Can pairing explain mutual exclusivity

Ruth McCole (20 min) Putting UCEs in the petri dish

Guille Orsi (20 min) Hi-Resolution Mapping of Transcription Factor Occupancy and Nucleosome Organization at Regulatory Elements in *Drosophila*

10am **Break**

10:30 Welcome Bender (20 min) The *bithorax* complex segment by segment

Eric Joyce (20 min) Exploring the interplay between somatic and meiotic pairing in the female germline

Niroshi Senaratne (20 min) Sisters versus homologs: the family ties of the nucleus.

Nick Apostolopoulos (10 min) Consequences of Clingy Chromosomes

noon **Lunch Vail 513 (Sponsored by Olympus Instruments)**

2pm Brian Beliveau (20 min) Color by Sequence: Using DNA oligos to paint the genome

Caroline Kim (10 min) Color by Sequence: a Variegation

Huy Nguyen (10 min) Cap-H2 as a regulator of interphase chromosome length: *cis vs trans* interactions

Gio Bosco  
(20 min) Condensin mediated compaction and chromatin tethers function to antagonize chromosome pairing

3pm **Break (Sponsored by VWR)**

3:30pm Sharon Bickel  
(20 min) How do achiasmate homologs stay stuck together in *Drosophila* oocytes?

Nagma Shah  
(10 min) The Effect of Mutations in *zeste* on Transvection at the *eyes absent* Gene of *Drosophila melanogaster*

Kathy Tian  
(10 min) Allelic structure and transvection at the *eyes absent* gene

Maureen Peterson  
(10 min) Condensin II regulates centromeric clustering, HP1 localization and expression of transposons.

Amity Manning  
(20 min) pRB loss compromises chromosome cohesion and promotes whole chromosome instability in tumor cells

**Break (Sponsored by VWR)**

**Pizza Dinner, Vail 513**

**Saturday Night (after dinner)**

8pm Manasi Apte  
(20 min) Heterochromatin, Sex, and Pairing

Gio Bosco  
(10 min) Is the interphase chromosome a mechano-sensory, stretch-sensitive signaling organelle?

Thomas Merritt  
(20 min) How a bad day in the lab turned into a research program

Ting Wu  
(20 min) But what happens if...

**Sunday, October 28:**

Group hike for those that have not departed.