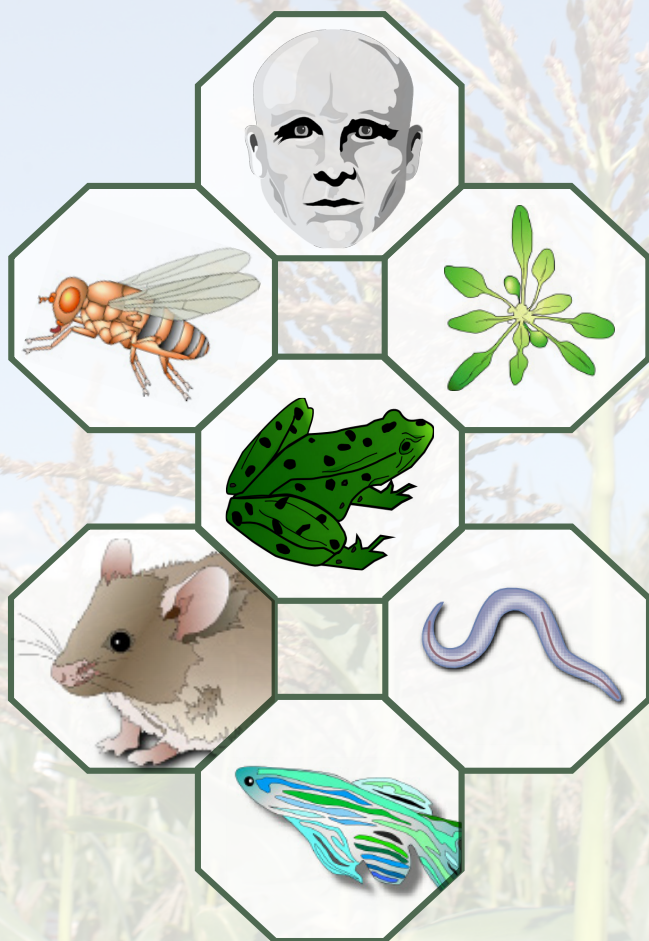




Cold Spring Harbor Laboratory

Mobile Genetic Elements

October 24 - 26, 2013



Organizers:

Rob Martienssen/HHMI-GBMF
Cold Spring Harbor Laboratory
Irina Arkhipova
Marine Biology Laboratory,
Woods Hole

Co-Organizer:

Kate Creasey
Cold Spring Harbor Laboratory

Topics

Plant and Animal Transposons
Transposons in the Brain
Dealing with Repetitive Sequences
Role of Transposons in:
Cancer / Gamete / Aging /
Embryo Development

Speakers

Irina Arkhipova
Marine Biology Laboratory,
Woods Hole
Nancy Craig
Johns Hopkins University
Josh Dubnau
Cold Spring Harbor Laboratory
Gregory Hannon
Cold Spring Harbor Laboratory
Laura Landweber
Princeton University
Damon Lisch
University of California, Berkeley
Rob Martienssen
Cold Spring Harbor Laboratory
Eric Richards
Boyce Thompson Institute for Plant
Research

We are pleased to announce the 2013 regional meeting on Mobile Genetic Elements/Transposons will be held at Cold Spring Harbor Laboratory, New York. Ample time for extensive discussion and other networking opportunities will be included in the format of the meeting.

Junior investigators, as well as students and postdoctoral fellows are encouraged to submit abstracts, as all oral sessions shall include speakers selected from submitted abstracts. Abstracts should contain new and unpublished material.

The unique element of this meeting is to bring together researchers in all aspects of transposon biology, in prokaryotes as well as eukaryotes, including but not limited to molecular biology, comparative genomics, population genetics, and evolution. CSHL boasts a rich history in transposon biology.

2013 Regional Meeting on Mobile Genetic Elements

Thursday, October 24, 2013

- 6:00 p.m.** Introduction: *Kate Creasey (Chair)*
- 6:15 p.m.** *Reprogramming of DNA methylation in pollen guides epigenetic inheritance via small RNA*
Invited Speaker - **Rob Martienssen** Cold Spring Harbor Laboratory
- 7:00 p.m.** *The Transposon Storm Hypothesis of Neurodegeneration*
Invited Speaker - **Josh Dubnau** Cold Spring Harbor Laboratory
- 7:35 p.m.** *Transposon Regulation*
Keynote - **Nancy Craig** Johns Hopkins University
- 8:30 p.m.** Evening Coffee

Friday, October 25, 2013

- 9:30 a.m.** *What Mu transposons can tell us about the acquisition of new epigenetic information in plants*
Invited Speaker - **Damon Lisch (Chair)** University of California
- 10:00 a.m.** *miRNAs trigger widespread epigenetically-activated siRNAs from transposons in Arabidopsis*
Kate Creasey Cold Spring Harbor Laboratory
- 10:20 a.m.** *Transposable element small interfering RNAs inhibit host silencing*
Keith Slotkin Ohio State University
- 10:40 a.m.** *Epigenetic variation at Sadhu transposons in Arabidopsis*
Natalie Henkhaus Cornell University
- 11:00 a.m.** Coffee break
- 11:15 a.m.** *Rapidly evolving transposable elements and satellite DNAs drive the evolution of hybrid incompatibility genes*
Daniel Barbash Cornell University
- 11:45 a.m.** *Host-TE dynamics in Drosophila: Harm, Benefit and the Evolutionary Response by the piRNA machinery*
Justin Blumenstiel University of Kansas

- 12:05 p.m.** *Drosophila PIWI's target binding and silencing capacity for transposon elements and host mRNAs*
Yuliya Sytnikova Brandeis University
- 12:25 p.m.** *Ping-pong amplification ensures the fidelity of piRNA biogenesis in the Drosophila germline*
Jonathan Preall Cold Spring Harbor Laboratory
- 12:45 p.m.** Lunch
- 2:00 p.m.** Chair Jurgen Brosius
TBA
Invited Speaker: **Greg Hannon** Cold Spring Harbor Laboratory
- 2:30 p.m.** *Trex1 control of retroelements in neural cells*
Charles Thomas University of California
- 2:50 p.m.** *Somatic Retrotransposition Drives Clonal Genetic Variation in Pancreatic Ductal Adenocarcinoma*
Nemanja Rodic Johns Hopkins University
- 3:10 p.m.** *Use of the XRCC5^{-/-} Mouse to Examine Line-1 Retrotransposition in Mesenchymal-Derived Tumors Lacking Telomerase and During B- and T-Cell Development*
Tammy Morrish University of Toledo
- 3:30 p.m.** Coffee Break
- 3:45 p.m.** *Complex relations: Transposon mutualism in the ciliate Oxytricha*
Laura Landweber Princeton University
- 4:10 p.m.** *Transposable element diversity and genome size in sequenced eukaryotes*
Tyler Elliott University of Guelph
- 4:30 p.m.** *Murine endogenous retrotransposons lose epigenetic silencing with age*
Jill Kreiling Brown University
- 4:50 p.m.** *Genome-wide transcriptional landscape of repetitive elements and their role in mammalian cellular senescence and aging*
Nicola Neretti Brown University
- 5:10 p.m.** Poster Session (poster competition)

- 6:00 p.m. Cocktails
- 7:00 p.m. Banquet
- 9:30 p.m. Party / Band *Minor Groove*

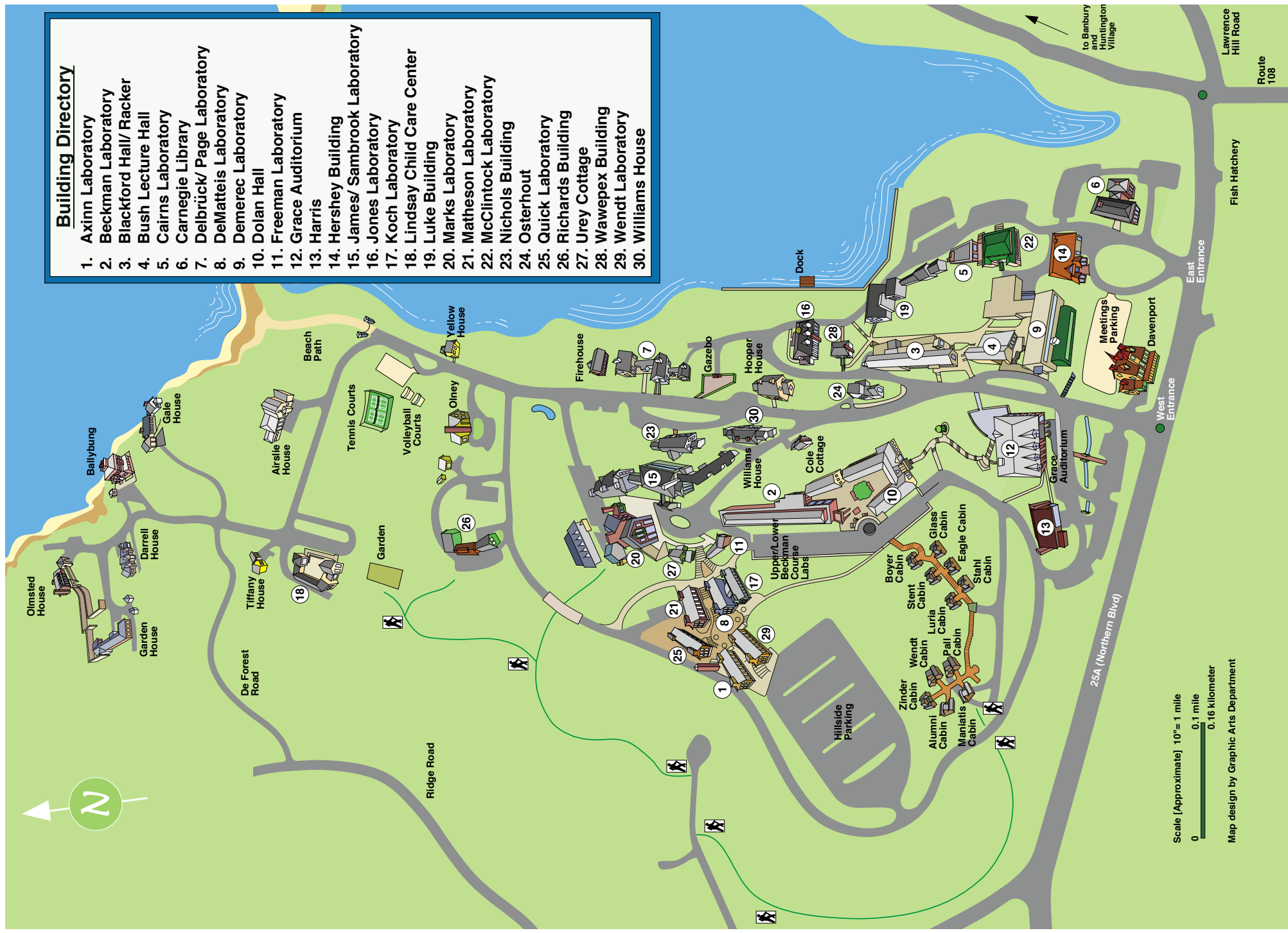
Saturday, October 26, 2013

- 9:30 a.m. *Transposable elements in bdelloid rotifers*
Invited Speaker: **Irina Arkhipova** (*Chair*)
Marine Biology Laboratory, Woods Hole
- 10:00 a.m. *piRNA-mediated silencing in the bdelloid rotifer Adineta vaga targets transposons as well as genes of foreign origin*
Fernando Rodriguez Marine Biological Laboratory
- 10:20 a.m. *Retrotransposition may contribute to aging-associated genome instability in Saccharomyces cerevisiae*
Patrick Maxwell Rensselaer Polytechnic Institute
- 10:40 a.m. *Sap1 guides the integration of LTR retrotransposons in Schizosaccharomyces pombe*
Jake Jacobs Rutgers University
- 11:15 a.m. Coffee break
- 11:30 a.m. *Advances in understanding the evolution of the RAG1/RAG2 complex from Transib transposons*
Invited Speaker: **Vladimir Kapitonov**
Genetic Information Research Institute
- 12:00 p.m. *Transposon-host interaction using Sleeping Beauty transposon as a model system*
Anantharam Devaraj Max-Delbruck-Center for Molecular Medicine
- 12:20 p.m. *Structural Study of Sleeping Beauty Transposase Binding to DNA*
Irina Nesmelova University of North Carolina
- 1:00 p.m. Brunch Buffet

Building Directory

1. Axinn Laboratory
2. Beckman Laboratory
3. Blackford Hall/ Racker
4. Bush Lecture Hall
5. Cairns Laboratory
6. Carnegie Library
7. Delbrück/ Page Laboratory
8. DeMatteis Laboratory
9. Demerec Laboratory
10. Dolan Hall
11. Freeman Laboratory
12. Grace Auditorium
13. Harris
14. Hershey Building
15. James/ Sambrook Laboratory
16. Jones Laboratory
17. Koch Laboratory
18. Lindsay Child Care Center
19. Luke Building
20. Marks Laboratory
21. Matheson Laboratory
22. McClintock Laboratory
23. Nichols Building
24. Osterhout
25. Quick Laboratory
26. Richards Building
27. Urey Cottage
28. Wawepeex Building
29. Wendt Laboratory
30. Williams House

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 30. Williams House



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Map design by Graphic Arts Department

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Visitor Information

Books, Gifts, Snacks, Clothing, Newspapers

Bookstore: 367-8837 (hours posted on door)
Located in Grace Auditorium, lower level

Photocopiers, Journals, Periodicals, Books, Newspapers

Photocopying - Main Library (See Library staff for photocopier code.)

Hours: 8:00 a.m. - 9 p.m. Mon-Fri

10:00 a.m. - 6:00 p.m. Saturday

Helpful tips - Use PIN# 50365 to enter Library after hours.

Computers, Email, Internet access

Grace Auditorium -- Upper Level: Email only; Lower Level: Word processing and printing. STMP server address: mail.optonline.net

To access your Email, you must know the name of your home server.

Dining, Bar

Blackford Hall

Breakfast 7:30 - 9:00 a.m., Lunch 11:30 - 1:30 p.m., Dinner 5:30 - 7:00 p.m.

Bar 5:00 p.m. till late

Helpful tip - If there is a line at the upper dining area, try the lower dining room

Messages, Mail, Faxes

Message Board, Grace, lower level

Swimming, Tennis, Jogging, Hiking

June - Sept. Lifeguard on duty at the beach. 12:00 - 6:00 p.m.

Two tennis courts open daily. Hiking trails are listed on the campus map.

Russell Fitness Center

Dolan Hall, east wing, lower level -- PIN # 50365 (then enter #)

Concierge

On duty daily at Meetings & Courses Office.

After hours - from tan phones, dial x8870 for assistance

Pay phones, House phones

Grace, lower level; Cabin Complex; Blackford Hall; Dolan Hall; foyer

Emergency	CSHL	Banbury
Fire	(9) 742-3300	(9) 692-4747
Ambulance	(9) 742-3300	(9) 692-4747
Poison	(9) 542-2323	(9) 542-2323
Police	(9) 911	(9) 549-8800
Safety - Security	Ext. 8870	

Emergency Room Huntington Hospital 270 Park Avenue, Huntington 631-351-2300 (1037)

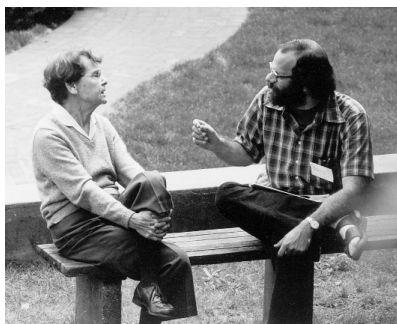
Dentists Dr. William Berg 631-271-2310 Dr. Robert Zeman 631-271-8090

Doctor MediCenter 234 W. Jericho Tpke, Huntington Station 631-423-5400 (1034)

Drugs Rite-Aid 391 W. Main Street, Huntington 24 hours, 7 days 631-549-9400 (1039)

Free Speed Dial - Dial the four numbers (****) from any tan house phone to place a free call.

We are pleased to include an exhibition from CSHL Library and Archives on Nobel laureate Barbara McClintock.



We thank Dupont Pioneer, Monsanto and DART Neuroscience for sponsorship and support.

