

North East Mobile Genetic Element Meeting – 2011

Swope Center, Meigs Room

MBL – Woods Hole, MA

September 1-3, 2011

Sponsors: Epicentre Biotechnologies

New England Biolabs

<http://www.mbl.edu/events/pdf/nemgem11.pdf>

Thursday, September 1

Registration: 2 to 6 pm at the Swope Center reception desk

5 – 6 PM – Mixer, 2nd floor lobby, Swope

6 – 7 PM – Dinner, Swope dining room

7 – 9 PM – Talks in Meigs Room, Swope

7:00 PM – Welcome – Bill Reznikoff

**7:10 PM – Joan Curcio, Wadsworth Center
“Biogenesis of Ty1 ribonucleoprotein complexes”**

**8:00 PM – Patrick Maxwell, Rensselaer Polytechnic Institute
“Mobility of endogenous retrotransposons is correlated with genome instability during yeast chronological aging”**

**8:30 PM – Eugene Gladyshev, Harvard University
“Biochemical properties of NcRVT protein encoded by a reverse transcriptase-like gene from *Neurospora crassa*”**

Friday, September 2

7:30 – 8:45 AM – Breakfast

**9 AM – Marlene Belfort, Wadsworth Center/SUNY at Albany
“Mobile introns and inteins move and shake in response to stress”**

**9:45 AM – Ingrid Hahn, Wadsworth Center/SUNY at Albany
“A Conjugative Relaxase Promotes Group II Retrotransposition”**

**10:15 AM – Olga Novikova, U. of Kentucky
“Elucidating mechanisms of telomere instability in rice blast fungus *Magnaporthe oryzae*: retrotransposons running riot”**

10:45 AM – Coffee break

**11 AM – Kate Creasey, Cold Spring Harbor Laboratory
“Role of RDR6 in the origin of epialleles in *Arabidopsis*”**

**11:30 AM – Andriy Didovik, Harvard University
“Flipping bases: an X-ray structure reveals how a (cytosine-5') methyltransferase opens up DNA”**

12 – 1 PM – Lunch

1 PM – 4 PM – Free time (Gemma collecting trip/ Marine Resources tour)

4 – 6 PM – Posters

5 – 6 PM – Mixer, Meigs room

6 PM – 7 PM – Dinner

7 – 9 PM – Talks in Meigs Room, Swope

7 PM – Nick Caruccio, Epicentre Biotechnologies/Illumina

“When Transposition and NextGen Sequencing Collide: How Tn5 has helped sequencing... and vice versa”

7:45 PM – David Shub, SUNY at Albany

“Hop, skip and jump: A homing endonuclease and the 50-nt ribosomal bypass sequence of phage T4 comprise a novel mobile DNA cassette”

8:30 PM – Cedric Feschotte, U. of Texas at Arlington

"Genomes without borders: mobile DNA, horizontal transfer, and the uncanny origin of genetic novelty"

Saturday, September 3

7:30 – 8:45 AM – Breakfast

9 AM – Abigail Salyers, U. of Illinois at Urbana-Champaign

“The role of integrated conjugative elements (ICEs) in gene flow among bacteria in the human colon”

9:45 AM – Ellen Pritham, U. of Texas at Arlington

"Transposable elements and the dynamic genome of *Trichomonas vaginalis*"

10:15 AM – Rebeca Campos-Sánchez, Penn State

“Integration of Transposable Elements Dependent on Genome Landscapes”

10:45 AM – Box lunches available to go

11:30 AM – 1 PM – Lunch

List of Poster Presentations

Gloria L. Arriagada, Annette Muttray, James Sherry, Carol Reinisch, Craig Street, W. Ian Lipkin, and Stephen P. Goff, HHMI and Department of Biochemistry and Molecular Biophysics, Columbia University
“Cloning of a retroelement from cell-free neoplastic hemolymph of the soft shell clam *Mya arenaria*”

R. F. Horns, E. Petit, and M. E. Hood, Department of Biology, Amherst College:
“Evidence of Repeat-Induced Point Mutation of Transposable Elements among Basidiomycete Fungi”

Carolyn Keeton and Jeffrey Gardner, Department of Microbiology, University of Illinois at Urbana-Champaign:
“Protein and DNA Sites Required for CTnDOT Excision Using an *in vitro* Intramolecular Excision Assay”

Sheila Lutz and M. Joan Curcio, Laboratory of Developmental Genetics, Wadsworth Center and Department of Biomedical Sciences, University at Albany:
“Characterization of Ty1 cytoplasmic ribonucleoprotein particles”

Ken Ringwald and Jeffrey Gardner, Department of Microbiology, University of Illinois at Urbana-Champaign:
“The role of host encoded protein BHF α in CTnDOT integration”

Fernando Rodriguez and Irina Arkhipova, Josephine Bay Paul Center for Comparative Molecular Biology and Evolution, Marine Biological Laboratory:
“Initial characterization of piwi-interacting RNAs in *Adineta vaga*”

Irina Yushenova, Kosmo Yan, and Irina Arkhipova, Josephine Bay Paul Center for Comparative Molecular Biology and Evolution, Marine Biological Laboratory:
“Genomes of monogonont rotifers contain both telomere-associated (endonuclease-deficient) and conventional (endonuclease-containing) *Penelope*-like elements”