

Mobile DNA 2010 Meeting
Draft Schedule with ASM-suggested modifications
1/25/10

Saturday, April 24th 2010

- 4:00 – 8:00pm Conference Registration
- 6:00 – 7:15pm Keynote Address - **Dr. Frederic Bushman**, University of Pennsylvania, Philadelphia, PA
- 7:15 – 9:00pm Opening Reception (standing finger buffet)

Sunday, April 25th 2010

Session One:

- 8:30 – 11:50am Genome Evolution**
Session Chair: **Dr. Cedric Feschotte**, University of Texas, Arlington, TX
- 8:30 – 8:55am **Dr. Mark Batzer**, Louisiana State University, Baton Rouge, LA
- 8:55 – 9:20am **Dr. Brandon Gaut**, University of California, Irvine, CA
- 9:20 – 9:35am Short Talk. Abstract #131. Pierre Capy, Paris, France
Short and long term evolution of transposable elements: How do selfing affects the dynamics of selfish elements?
- 9:35 – 10:00am **Dr. Curtis Suttle**, University of British Columbia, Vancouver, BC
- 10:00 – 10:30am Break
- 10:30 – 10:55am **Dr. Brian Higgins**, Princeton University, Princeton, NJ
- 10:55 – 11:10am Short Talk. Abstract #187. Irina Arkhipova, Woods Hole, MA.
The ever-expanding world of reverse transcriptases
- 11:10 – 11:25am Short Talk. Abstract #85, Richard Cordaux, CNRS Poitiers, France
Why are there so many insertion sequences in the genomes of Wolbachia bacterial endosymbionts?
- 11:25 – 11:40am Short Talk. Abstract #4. Josefa Gonzales, Stanford, CA.
Cryptic simplicity of the adaptive process: the role of TEs in adaptation to temperate climates
- 11:40 – 12:15pm **Dr. Cedric Feschotte**, University of Texas, Arlington, TX

Mammalian transposable elements and the emergence of lineage-specific functions

12:30 – 2:30pm

Lunch/break

**Session Two:
2:30 – 6:00pm**

Genome Diversification

Session Chair: **Dr. George Chaconas**, University of Calgary, Calgary, AB, Canada

2:30 – 2:55pm

Dr. Marjorie Oettinger, Massachusetts General Hospital, Boston, MA

2:55 – 3:20pm

Dr. Nina Papavasiliou, Rockefeller University, New York, NY

3:20 – 3:35pm

Short Talk. Abstract #203. M. Ciubotaru, Yale School of Medicine, New Haven, CT, RAG induced DNA distortions in the synaptic complex in V(D)J recombination.

3:35 – 4:00pm

Dr. Jeffrey F. Miller, UCLA, Los Angeles, CA,

4:00 – 4:25pm

Break

4:25 – 4:50pm

Dr. Mireille Betermier, CNRS, Toulouse, France

4:50 – 5:05pm

Short Talk. Abstract #97. A. Vogt, Taiwan, TPB2 - a domesticated PiggyBac Transposase plays a key role in the programmed genome rearrangement in *Tetrahymena thermophila*

5:05 – 5:20pm

Short Talk. Abstract #123. A. B. Barrie, UT Arlington, Unprecedented levels of mitochondrial to nuclear DNA transfer in *Toxoplasma gondii*

5:20 – 5:35pm

Short Talk. Abstract #93. H.M. Seth-Smith, Sanger Institute, A Family of Integrative and Conjugative Elements in *Salmonella*, including SPI-7

5:35 – 6:00pm

Dr. George Chaconas, University of Calgary, Calgary, AB, Canada

Poster Session 1

6:15 – 7:00pm

Odd Posters authors present

7:15 – 8:00pm

Even Posters authors present

Dinner on your own

Monday, April 26th 2010

**Session Three:
8:30 – 12:05pm**

DNA Transposons

Session Chair: **Dr. Nancy Craig**, Johns Hopkins University, Baltimore, MD

- 8:30 – 8:55am **Dr. Michael Chandler**, CNRS, Toulouse, France
- 8:55 – 9:20am **Dr. Rasika Harshey**, University of Texas, Austin, TX,
- 9:20 – 9:35am Short Talk. Abstract #68. J. Ross, University of Western Ontario, London, ON, Canada, Tn10/IS10 Transposition is Negatively Regulated by Hfq a Global Regulator of Gene Expression in Gram-negative Bacteria
- 9:35 – 10:00am **Dr. Julie Richardson**, University of Edinburgh, Edinburgh, Scotland,
- 10:00 – 10:30am Break
- 10:30 – 10:55am **Dr. Joe Peters**, Cornell University, Ithaca, NY,
- 10:55 – 11:10am Short Talk. Abstract #116. D. Rio, University of California, Berkeley, CA, Identification and characterization of hyperactive mutant forms of the Drosophila P element transposase.
- 11:10 – 11:25am Short Talk. Abstract #145. R. Chalmers, University of Nottingham, Nottingham, United Kingdom, The mechanism of mariner transposition
- 11:25 – 11:40am Short Talk. Abstract #152. P.W. Atkinson, University of California, Riverside, CA, The Mobility of hAT transposons in Multiple Host Organisms
- 11:40 – 12:05pm **Dr. Nancy Craig**, Johns Hopkins University, Baltimore, MD
- 12:05 – 2:30pm Lunch/break
- Session Four:
2:30 – 6:00pm** **Non-LTR Retrotransposons and Group II Introns**
Session Chair: **Dr. Prescott Deininger**, Tulane Cancer Center, New Orleans, LA
- 2:30 – 2:55pm **Dr. Haig Kazazian, Jr.**, University of Pennsylvania, Philadelphia, PA
- 2:55 – 3:20pm **Dr. John Moran**, University of Michigan, Ann Arbor, MI
- 3:20 – 3:35pm Short Talk, Abstract #144. E. Khazina, Max-Planck-Institute for Developmental Biology, Tuebingen, Germany, Structural characterization of the ORF1p protein of the human LINE1 retrotransposon
- 3:35 – 4:00pm **Dr. Tom Eickbush**, University of Rochester, Rochester, NY,

- 4:00 – 4:25pm Break
- 4:25 – 4:50pm **Prescott Deininger**, Tulane Cancer Center, New Orleans, LA
- 4:50 – 5:15pm **Dr. Jean-Marc Deragon**, Université de Perpignan, France,
- 5:15 – 5:30pm Short Talk Abstract #80, D. Edgell, Univ. of Western Ontario, London, ON, Canada, Better late than never: Delayed translation of homing endonuclease I-TevI stimulates splicing of its host group I intron
- 5:30 – 5:45pm Short Talk, Abstract #160, K.S. Swithers, Univ. of Connecticut, Storrs, CT, Evolutionary conservation of intein and intron insertion sites
- 5:45 – 6:10pm **Dr. Marlene Belfort**, Wadsworth Center, Albany, NY
- Poster Session 2**
- 6:15 – 7:00pm Odd Posters authors present
- 7:15 – 8:00pm Even Posters authors present
- Dinner on your own

Tuesday, April 27th 2010

Session Five:

8:30 – 11:40am

Session Five: Host-Element Interactions

Session Chair: **Dr. Joan Curcio**, Wadsworth Center, Albany, NY

- 8:30 – 8:55am **Dr. Damon Lisch**, University of California, Berkely, CA,
- 8:55 – 9:10am Short Talk. Abstract #79. R. Rebollo, CNRS, Lyon, France, Histone modifications associated with transposable elements in natural populations of *Drosophila*
- 9:10 – 9:25am Short Talk. Abstract #83. Hadi Quesneville, INRA, Versailles, France, When repeats meet chromatin: Relationship between repeats and heterochromatin dynamics
- 9:25 – 9:50am **Dr. Stefan Astrom**, Stockholm University, Stockholm, Sweden
- 9:50 – 10:20am Break
- 10:20 – 10:45am **Dr. Alan Engelman**, Dana-Farber Cancer Institute, Boston, MA,

- 10:45 – 11:00am Short Talk. Abstract #87. S. Schaack, University of Texas, Arlington, A role for host-parasite interactions in the horizontal transfer of DNA transposons across animal phyla
- 11:00 – 11:15am Short Talk. Abstract #107. R. Sousa. Institute of Evolutionary Biology, Barcelona, Spain, Two chromosomal proteins with a dual role at Drosophila telomeres: The Jil-1 kinase and the Z4 protein control the expression of the telomeric retrotransposon HeT-A and are necessary for telomere stability
- 11:15 – 11:40am **Dr. Joan Curcio**, Wadsworth Center, Albany, NY
- 11:40 – 4:30pm Free Afternoon/Organized Activities ??
Times and Activities: TBD

Lunch is on your own today in exchange for food at the evening poster session

Session Six:

4:30 – 7:25pm

LTR Retrotransposons

Session Chair: **Dr. Henry Levin**, National Institutes of Health, Bethesda, MD

- 4:30 - 4:55pm **Dr. Dan Voytas**, University of Minnesota, MN
- 4:55 – 5:10pm Short Talk. Abstract #198. David E. Symer, Ohio State University, Columbus, Ohio, Polymorphic LTR retrotransposons can terminate transcripts at a distance, causing mouse lineage variation
- 5:25 – 5:50pm **Dr. Tetsuji Kakutani**, National Institute of Genetics, Mishima, Shizuoka, Japan,
- 5:50 – 6:05pm Break
- 6:05 – 6:30pm **Dr. Suzanne Sandmeyer**, University of California Irvine, Irvine, CA
- 6:30 – 6:45pm Short Talk. Abstract #94. P. Lesage, Ecole Normale Superieure, Paris, France, Co-activation of Ty1, Ty2 and Ty3 transcription and alteration of Ty1 antisense RNA expression in response to adenine nucleotide variations in Yeast
- 6:45 – 7:00pm Short Talk. Abstract #108. D.J. Garfinkel, Univ. of Georgia, Athens, P-body components are required for Ty1 retrotransposition during assembly of retrotransposition-competent virus-like particles
- 7:00 – 7:25pm **Dr. Henry Levin**, National Institutes of Health, Bethesda, MD

Poster Session 3 (7:30-9:30 pm) includes Buffet “dinner-type” finger-food/sandwich/pizza stations (no seating)

7:45 – 8:30pm Odd Posters authors present
8:45 – 9:30pm Even Posters authors present

Wednesday, April 28th 2010

**Session Seven:
8:30 – 12:05pm**

Site-Specific Recombinases and Relatives

Session Chair: **Dr. Phoebe Rice**, University of Chicago, Chicago, IL

8:30 – 8:55am **Dr. Reid Johnson**, UCLA, Los Angeles, CA,
8:55 – 9:20am **Dr. Frederic Dyda**, National Institutes of Health, Bethesda, MD
9:20 – 9:35am Short Talk. Abstract #100. J. Nunvar, Charles University, Prague,
The role of tyrosine transposases in evolution of bacterial palindromic
genomic repeats
9:35 – 10:00am **Dr. Marshall Stark**, University of Glasgow, Glasgow, United Kingdom
10:00 – 10:30am Break
10:30 – 10:55am **Dr. Jeff Gardner**, University of Illinois, Urbana, IL,
10:55 – 11:10am Short Talk. Abstract #190. R. P. Saha, Mapping of Int bridges
between recombination intermediates in bacteriophage lambda
Integrase-mediated site-specific recombination
11:10 – 11:25am Short Talk. Abstract #70. G. F. Gao, Institute of Microbiology, Chinese
Academy of Sciences, Beijing, China, Excision, Transfer, and
Reintegration of the 89K Pathogenicity Island in Epidemic
Streptococcus suis Serotype 2
11:25 – 11:40am Short Talk. Abstract #141. I. Ammar, MDC-Berlin, Berlin, Germany,
Targeted DNA transposition in human cells by the adeno-associated
virus Rep protein
11:40 – 12:05pm **Dr. Phoebe Rice**, University of Chicago, Chicago, IL,
12:05pm – 2:30pm Lunch/break

**Session Eight:
2:30 – 6:00pm**

Biological Impacts of Transposition

Session Chair: **Dr. Dan Voytas**, University of Minnesota, Minneapolis,
MN

- 2:30 – 2:55pm **Dr. Harmit Malik**, Frederick Hutchison Cancer Research Center, Seattle, WA
- 2:55 – 3:20pm **Dr. Peter Cherepanov**, Imperial College, London
- 3:20 – 3:35pm Short Talk. Abstract #90. Z. Lou, University of Texas, Austin, Evidence for Existence of Mu Prophage as an Independent Chromosomal Domain in E. coli
- 3:35 – 4:00pm **Dr. Rob Martienssen**, Cold Spring Harbor Labs, Cold Spring Harbor, NY
- 4:00 – 4:25pm Break
- 4:25 – 4:50pm **Dr. Jef Boeke**, Johns Hopkins University School of Medicine, Baltimore, MD,
- 4:50 – 5:05pm Short Talk. Abstract # (Please note, the abstract was submitted after the deadline and is replace an abstract submitted prior to the deadline). Kathleen Burns, Johns Hopkins Shool of Medicine, Functional effects of retrotransposon insertional polymorphisms in the human genome
- 5:05 – 5:20pm Short Talk. Abstract #192. Ellen Pritham, Univ. of Texas, Arlington, Transposable elements and genome plasticity in the unicellular parasite, Phytophthora infestans
- 5:20 – 5:35pm Short Talk. Abstract #86. C. M. Carareto, Sao Paulo State University, Sao Jose do Rio Preto, SP, Brazil, RNA surveillance in action: low protein coding potential of exonized transposable elements can be understood in the light of nonsense-mediated mRNA decay (NMD)
- 5:35 – 6:00pm **Dr. Alan Lambowitz**, University of Texas, Austin, TX,
- 7:00 – 7:45pm Reception
- 7:45 – 10:00pm Banquet with Gypsy Jazz entertainment
- 10:00 pm End of Conference

Departures on Thursday morning