

Barbados Workshop on the Computational Identification and Analysis of Transposable Elements

April 18-24 2014

Tentative schedule

Friday April 18

All day: Arrivals

Saturday April 19

8:00 – 9:00 Breakfast
9:00 – 18:00 Arrivals; free time; excursions
18:00 – 18:45 Dinner
18:45 – 19:00 Introduction. Goals of the workshop
19:10 – 20:30 **Thomas Bureau and Douglas Hoen**
Domesticated transposable elements and transduplication
20:40 – 22:00 **Josep Casacuberta**
Analysis of transposon insertion variability in melon varieties based on NGS data, and the use of these data to refine transposon annotation

Sunday April 20

8:00 – 9:00 Breakfast
9:00 – 10:20 **Anna-Fiston-Lavier**
Transposable elements, actors of the genome evolution and adaptation in Diptera
10:40 – 12:00 **Guillaume Bourque**
Impact of transposable elements on the human genome
12:00 - 18:00 Lunch (off-site); Free time; excursions
18:00 – 19:00 Dinner
19:10 – 20:30 **Richard Cordaux**
Horizontal transfer of transposable elements.
20:40 – 22:00 **Arian Smit**
Transposable element prediction and comparative genomics

Monday April 21

8:00 – 9:00 Breakfast
9:00 – 10:20 **Aurélie Hua-Van**
Class II elements in *Drosophila* (and other species)
10:40 – 12:00 **Emmanuelle Lerat**
Evolutionary history of TE sequences in genomes: *Drosophila* as a case study
12:00 - 18:00 Lunch (off-site); Free time; excursions
18:00 – 19:00 Dinner
19:10 – 22:00 **Discussion (part 1)**

Tuesday April 22

- 8:00 – 9:00 Breakfast
9:00 – 10:20 **Aurélie Kapusta** (Feschotte/Yandell lab):
Transposable elements annotation through the genome
annotation pipeline MAKER
10:40 – 12:00 **Glenn Hickey, Douglas Hoen, Thomas Bureau, and
Mathieu Blanchette**
A probabilistic integrative approach for TE prediction
12:00 - 18:00 Lunch (off-site); Free time; excursions
18:00 – 19:00 Dinner
19:10 – 22:00 **Discussion (part 2)**

Wednesday April 23

- 8:00 – 9:00 Breakfast
9:00 – 10:20 **Travis Wheeler** (Eddy/Rivas Lab)
Using profile HMMs for transposable element detection, and
experiences with benchmarking in homology search
10:40 – 12:00 **David Pollock**
New methods for deconstructing and visualizing genomic
repeat content
12:00 - 18:00 Lunch (off-site); Free time; excursions
18:00 – 19:00 Dinner
19:10 – 20:30 **Florian Maumus** (Quesneville Lab)
Annotating Transposable elements in the genomic dark matter
and in large genomes
20:40 – 21:40 **Richard Hubley**
TBD
21:40 – 22:10 **Mathieu Blanchette**
Annotation of ancient mammalian transposable elements.

Thursday April 24

- 8:00 – 9:00 Breakfast
9:00 – 12:00 Wrap up discussion, planning, writing of white paper.