

The Genomics of Transposable Elements

Unmasking their Complex Contribution to Genome Function and Evolution

PSL-Qlife Winter School in Quantitive Biology – February 6th-10th , 2023

Monday, February 6th

8:45 - 9:00 am **V. Colot, P. Charnay**
Introduction

Room 316

9:00 - 10:30 am **Josefa Gonzalez**
Transposable elements in adaptive evolution:
linking genotype to phenotype.

Room 316

10:30 -11:00 am *Coffee break - Room 305*

11:00 - 12:30 am **Deborah Bourc'his**
DNA and RNA modifications
of transposons

Room 316

12:30 - 1:30 pm *Lunch*

Room 305

1:30 - 5:00 pm
Digital workshop
Part1

**How TEs contribute to
genome sequences?**

Room 321

Josefa Gonzalez
Marta Coronado-
Zamora
Simón Orozco

1:30 - 5:00 pm
Digital workshop
Part1

**How TEs contribute to
the epigenome?**

Room 313

Deborah Bourc'his
Aurélie Teissandier
Lolita Lecompte

Tuesday, February 7th

9:00 - 10:30 am **Helen Rowe**
Transposable elements as gatekeepers of
chromatin remodeling and inflammation

Room 316

10:30 -11:00 am *Coffee break - Room 305*

11:00 - 12:30 am **Leandro Quadrana**
Causes and consequences of
transposable elements mobilization

Room 316

12:30 - 1:30 pm *Lunch*

Room 305

1:30 - 5:00 pm
Digital workshop
Part2

**How TEs contribute to
genome sequences?**

Room 321

Leandro Quadrana
Pierre Baduel
Louna De Oliveira
Pol Vendrell

1:30 - 5:00 pm
Digital workshop
Part2

**How TEs contribute to
the epigenome?**

Room 313

Helen Rowe
Rocio Enriquez-Gasca
Larisa Okorokova
Lolita Lecompte

Wednesday, February 8th

9:00 - 10:30 am **Felipe Karam Teixeira**
Small RNAs and the control of
genome functioning

Room 316

10:30 -11:00 am *Coffee break - Room 305*

11:00 - 12:30 am **Richard Durbin**
Transposons in genome sequences from
across the tree of life

Salle Favard

12:30 - 1:30 pm *Lunch*

Room 305

1:30 - 5:00 pm
Digital workshop

**How TEs contribute to
genome activity?**

Room 321

Felipe Karam Teixeira
Daniel Gebert
Amir Hay

1:30 - 5:00 pm
Digital workshop

**How TE evolutionary
dynamics impact on
chromatin structure and
function?**

Room 313

Helen Rowe
Rocio Enriquez-Gasca
Larisa Okorokova
Lolita Lecompte

Thursday, February 9th

9:00 - 10:30 am **Gaël Cristofari**
Genomic approaches to study transposable
elements in the human genome

Room 316

10:30 -11:00 am *Coffee break - Room 305*

11:00 - 12:30 am **Jose Tubio**
The dynamics of transposable
elements in cancer

Room 316

12:30 - 1:30 pm *Lunch*

Room 305

1:30 - 5:00 pm
Digital workshop

**How to measure TE
expression?**

Room 313

Gaël Cristofari
Sophie Lanciano
Larisa Okorokova
David Pratella

1:30 - 5:00 pm
Digital workshop

**How to use Nanopore
sequencing to explore
TEs associated with
disease?**

Room 321

Jose Tubio
Sonia Zumalave
Iago Otero Coto

Friday, February 10th

9:00 - 10:30 am **Christine Beck**
Transposable element mediated
rearrangements in mammalian genomes

Room 316

10:30 -11:00 am *Coffee break - Room 305*

11:00 - 12:30 am Discussion/restitution
with students

Room 316

12:30 - 1:30 pm *Lunch*

Room 305

1:30 - 5:00 pm
Digital workshop

**Nanopore sequencing
and the contribution of
TEs to allelic and
epiallelic variation**

Room 321

Vincent Colot
Pierre Baduel
Louna De Oliveira

1:30 - 5:00 pm
Digital workshop

**How do TEs contribute
to structural variation?**

Room 313

Christine Beck
Parithi Balachandran
Ardian Ferraj

5:00 - 5:30 pm *Coffee break - Room 305*

5:30 - 6:30 pm **Sandra Duhaucourt**
Control of transposable elements by
Polycomb in *Paramecium*

Salle Favard

6:30 - 7:30 pm

**Poster session I
Wine, beer and cheese**

Room 316

5:00 - 5:30 pm *Coffee break - Room 305*

5:30 - 6:30 pm **Jan Korbel**
Deciphering genomic structural
variation in the human genome
using long-read sequencing

Salle Favard

7:30 pm

Speakers/TAs dinner

5:00 - 5:30 pm *Coffee break - Room 305*

5:30 - 6:30 pm **Michael Imbeault**
KRAB zinc finger proteins, transposable
elements and the evolution of gene
regulatory networks

Salle Favard

5:00 - 5:30 pm *Coffee break - Room 305*

5:30 - 6:30 pm
Poster session II

Room 316

6:30 - 7:30 pm

Cocktail

Room 305

5:00 pm *Coffee break and departure*

Room 305