

## Axis 2 Workshop “Genome Dynamics and Cancer”

Toulouse, September 15-16, 2022

13h00 Welcome coffee

14h00 Welcome address

### 14h10 DNA Repair, Replication & Recombination

**Lecture:** Studying eukaryotic DNA replication with nanopore sequencing

**Olivier HYRIEN**, Institut de Biologie de l'École Normale Supérieure (IBENS), Paris

Genome-wide mapping of 5'OH-containing DNA lesions

**Aline MARNEF**, CBI, Toulouse

Nearly all multiple-case breast cancer families with HRD tumors are detected by clinical gene panels

**Thibaut MATIS**, Institut Bergonié, Bordeaux

GNL3 regulates replication origin firing and protects stalled replication forks

**Cyril RIBEYRE**, IGH, Montpellier

Pol theta-dependent compromised DNA repair fidelity in embryonic stem cells

**Ophélie MARTIN**, University of Sussex, Brighton

16h10 Coffee & posters' session

### 17h00 RNA & translation

Molecular mechanisms of RNA polymerase III transcription termination

**Odil PORRUA**, IGMM, Montpellier

RNA G-quadruplex couples translation to autophagy

**Anne CAMMAS**, CRCT, Toulouse

Post-transcriptional heterochromatin silencing through RNA decay and its physiological implications

**Anna MATTOUT**, CBI, Toulouse

RNA binding proteins modulate the splicing programs required for DNA damage detection and repair during B cell development

**Manuel Daniel DIAZ-MUNOZ**, Infinity, Toulouse

18h30-19h15 Posters & End of day 1

9h00

## Gene expression & Epigenetics

**Lecture: Epigenetic and transcriptomic signatures in AML**

**Estelle DUPREZ**, CRCM, Marseille

Arginine citrullination and cellular interfaces in transcription regulation

**Priyanka SHARMA**, IRCM, Montpellier

G-quadruplexes involvement in non-canonical mammalian genome insulation and cancer

**Nezih KARASU**, IGMM, Montpellier

Identification and characterization of the retrotransposons reactivated upon loss of the chromatin associated proteins HP1: impact on gene expression and liver tumorigenesis

**Florence CAMMAS**, IRCM, Montpellier

10h40

Coffee & posters session

11h30

## 3D Genome organization & beyond

Identifying new regulators of cell cycle progression through experimental evolution

**Damien COUDREUSE**, IBGC, Bordeaux

Evidence of low levels of nanocompaction at Heterochromatin in living embryonic stem cell

**David LLERES**, IGMM, Montpellier

Chromatin as a biomolecular condensate

**Fabian ERDEL**, CBI, Toulouse

12h40

Cocktail lunch

14h15

## 3D Genome organization and nuclear architecture

**Lecture: (De)regulation of T-cell genome organization and (auto)immunity**

**Charalampos (Babis) SPILIANAKIS**, Biology-University of Crete, IMBB-FORTH, Heraklion

Nuclear pores in global chromatin organization

**Charlène BOUMENDIL**, IGH, Montpellier

Very long intergenic non-coding RNAs as potential architectural players of chromatin 3D reorganization during oncogene-induced senescence

**Julien OUVRARD**, CBI, Toulouse

Creating awareness of the existence, the importance, and the manipulation opportunities of nuclear Lipid Droplets in genome stability

**Maria MORIEL-CARRETERO**, CRBM, Montpellier

16h00

End of the workshop